

Chollas Creek Dissolved Metals TMDL and Special Studies Monitoring

Draft Results

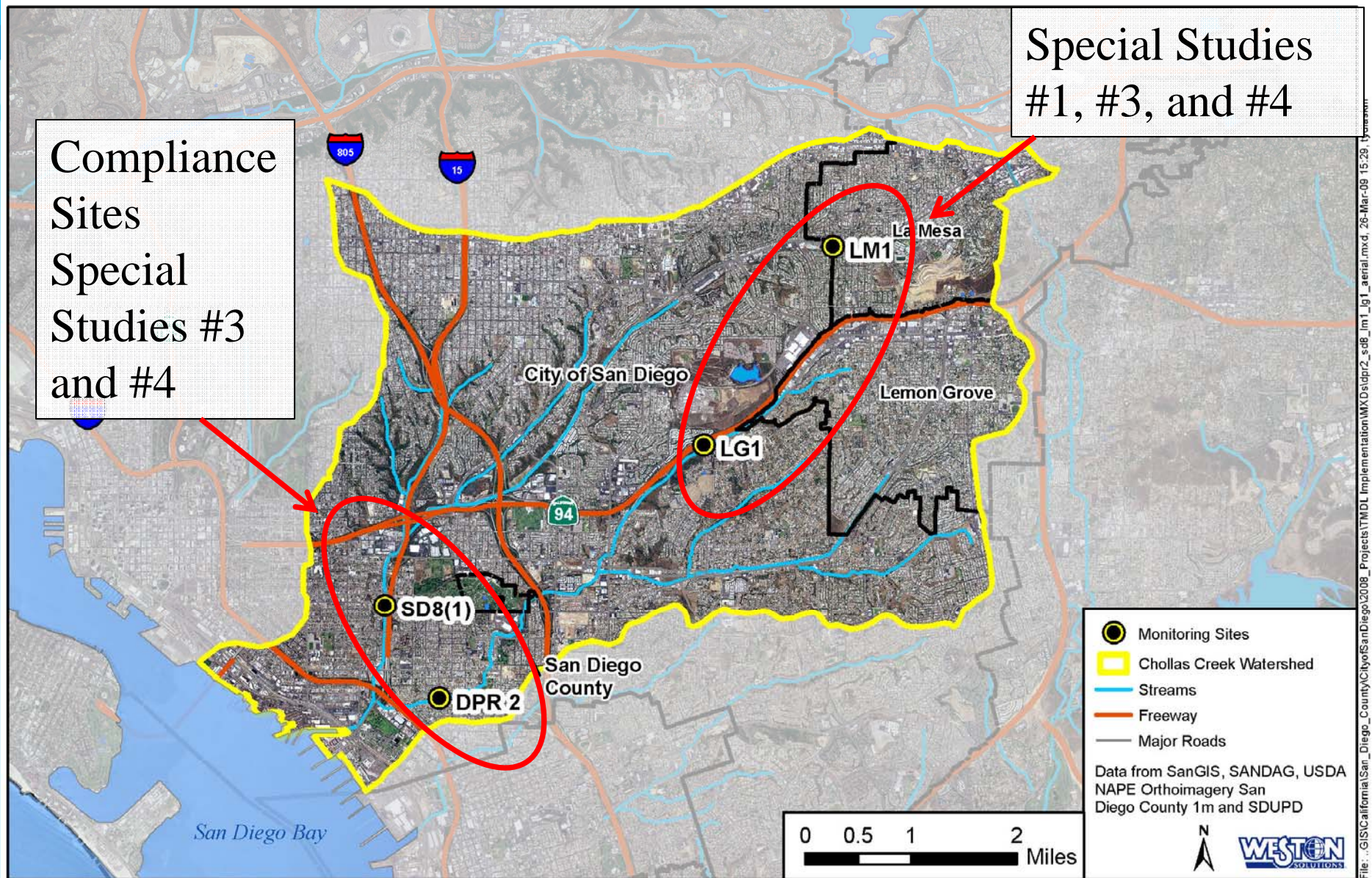
Presentation to the Chollas Creek
Stakeholders

6/21/10

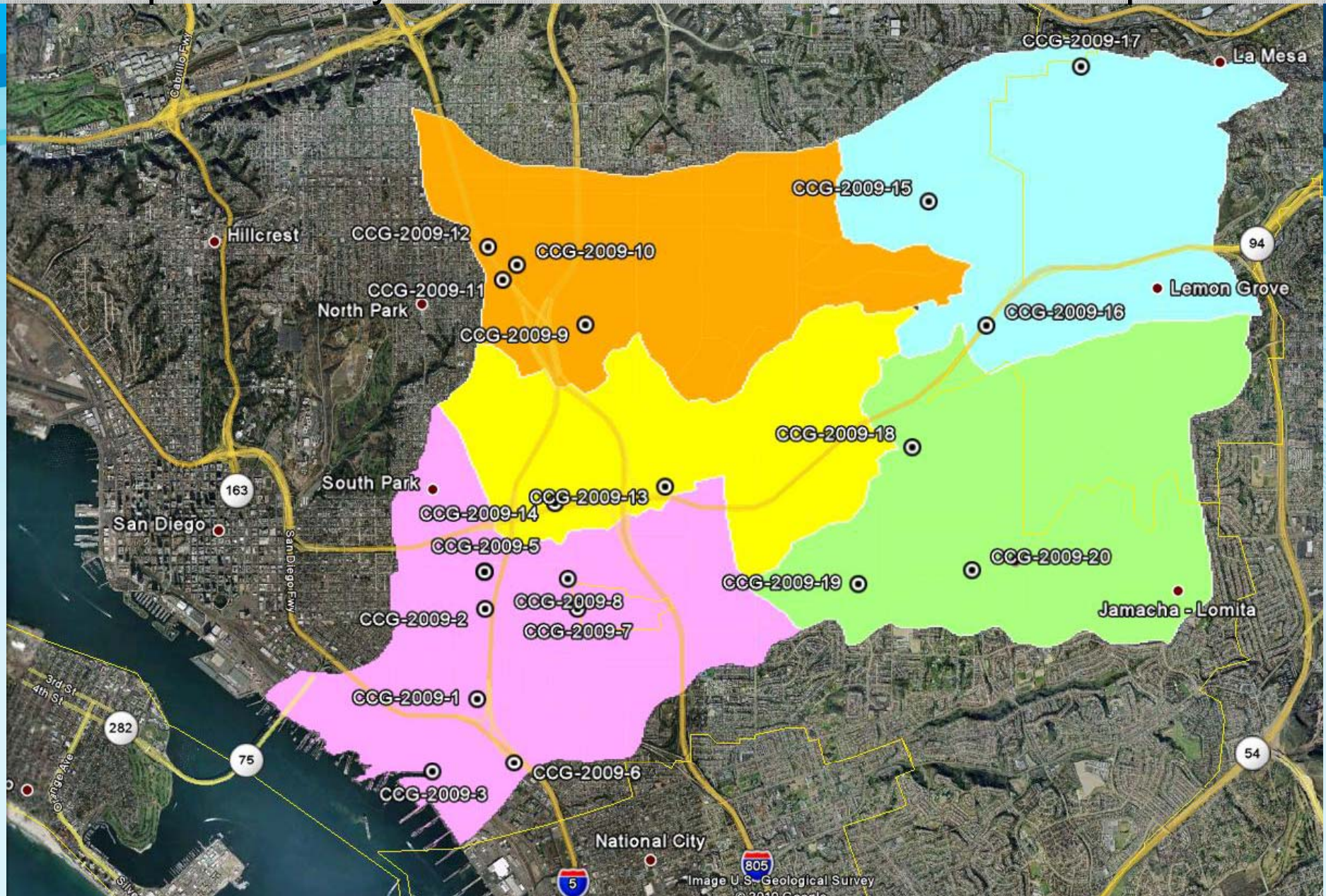


think**BLUE**
SAN DIEGO

Monitoring Sites and Special Studies



Special Study #2 – Source Assessment Grab Samples



2009-2010 Monitoring Updates



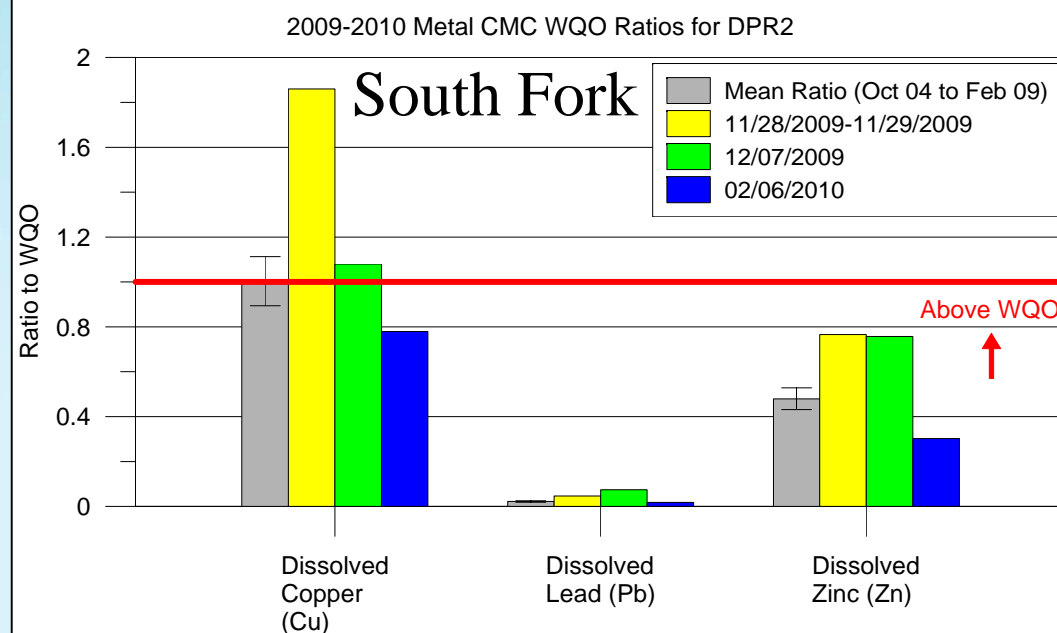
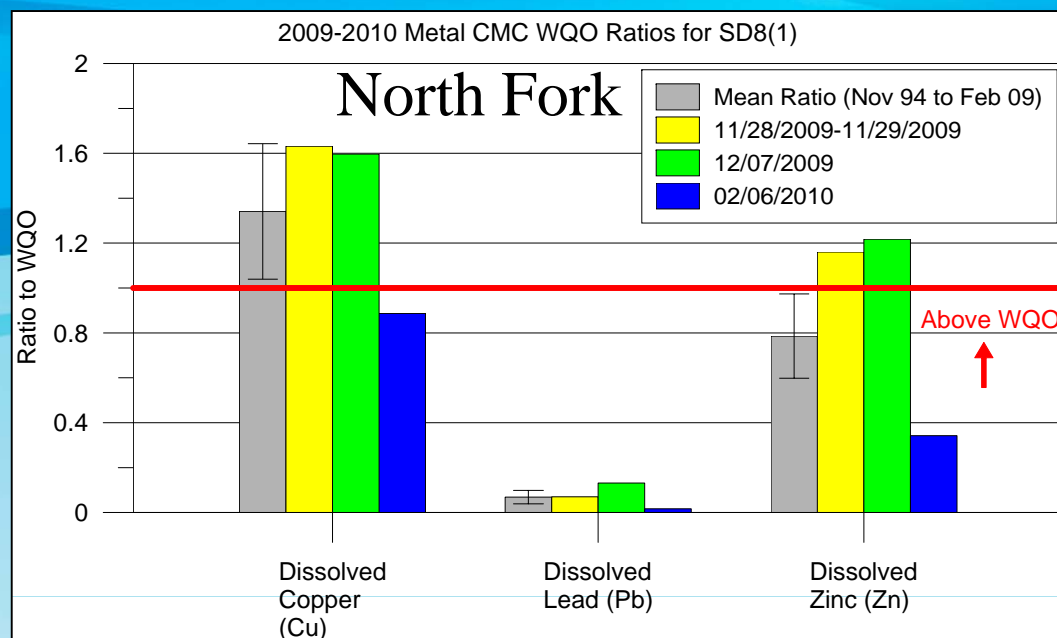
Monitoring Task	Sites	Event Dates
Compliance Monitoring (3 Events)	NF-SD8(1) SF-DPR2	11/29/09, 12/7/09, 2/6/10
SS#1 – Jurisdictional Boundary Monitoring (2 Events)	NF-LM-1 SF-LG-1	11/29/09, 2/6/10
SS#3 – Synthetic Pyrethroid Monitoring (3 Events)	NF-SD8(1) SF-DPR2 NF-LM-1 SF-LG-1	11/29/09, 12/7/09, 2/6/10 11/29/09, 2/6/10
SS#4 – Bacteria Analyses (3 Events)	NF-SD8(1) SF-DPR2 NF-LM-1 SF-LG-1	11/29/09, 12/7/09, 2/6/10 11/29/09, 2/6/10
SS#2 – Source Assessment Grab Samples (1 Event)	18 of 20 Sites	1/18/10



2009-2010 Draft Metals Results



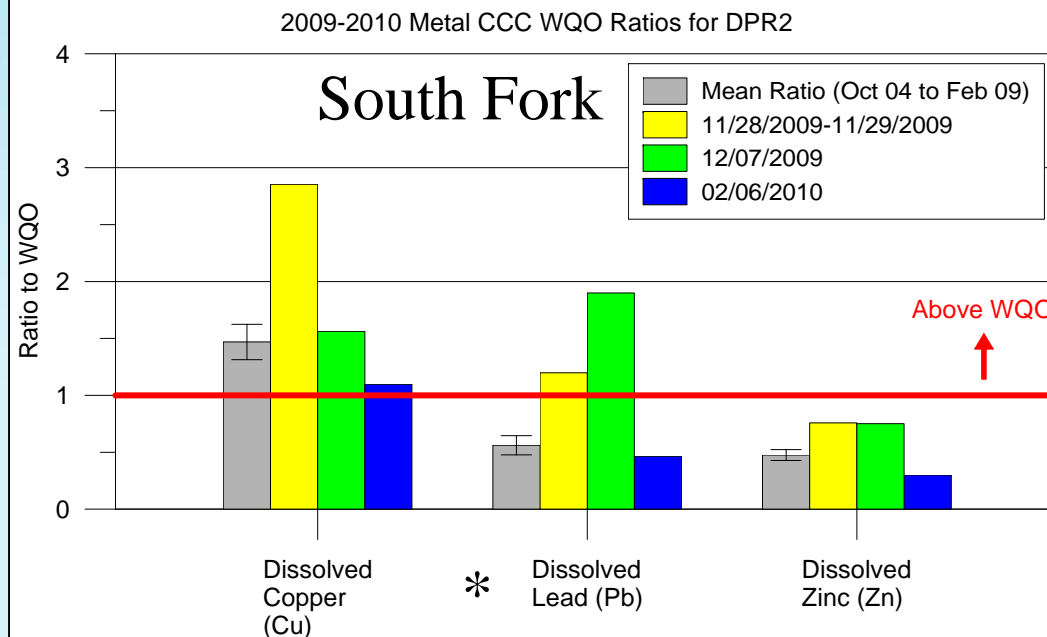
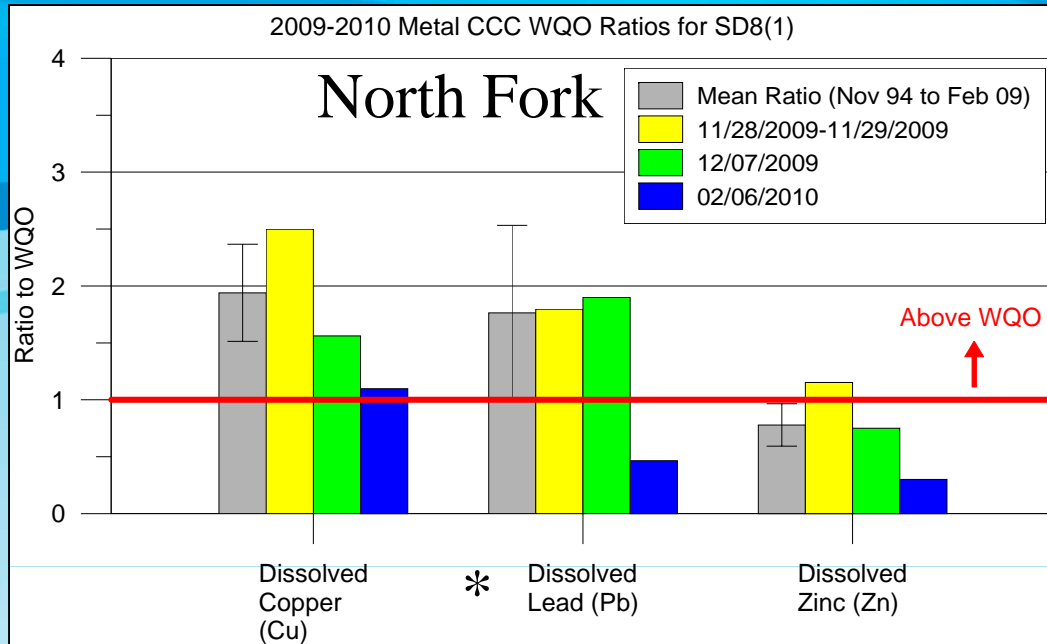
Acute (CMC) Comparison



2009-2010 Draft Metals Results



Chronic (CCC) Comparison



* EPA is currently revising the aquatic lead criteria.

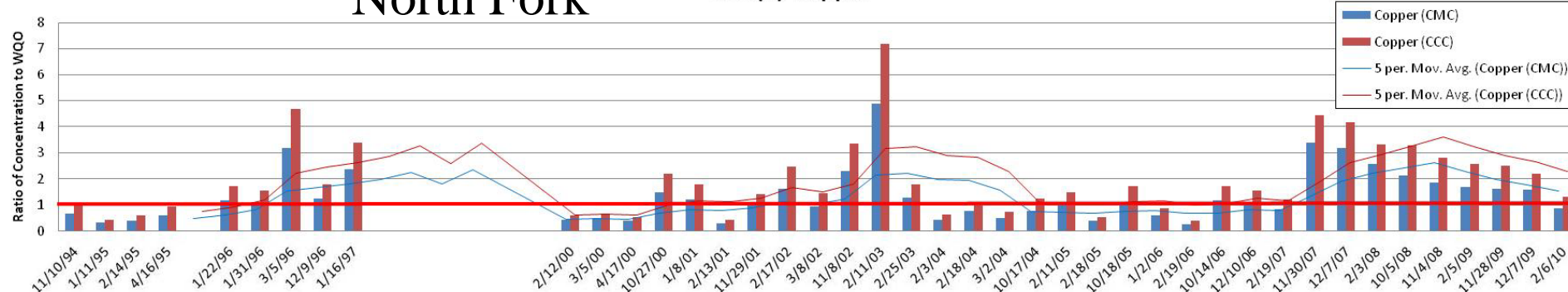


Historical Metals Results - Copper



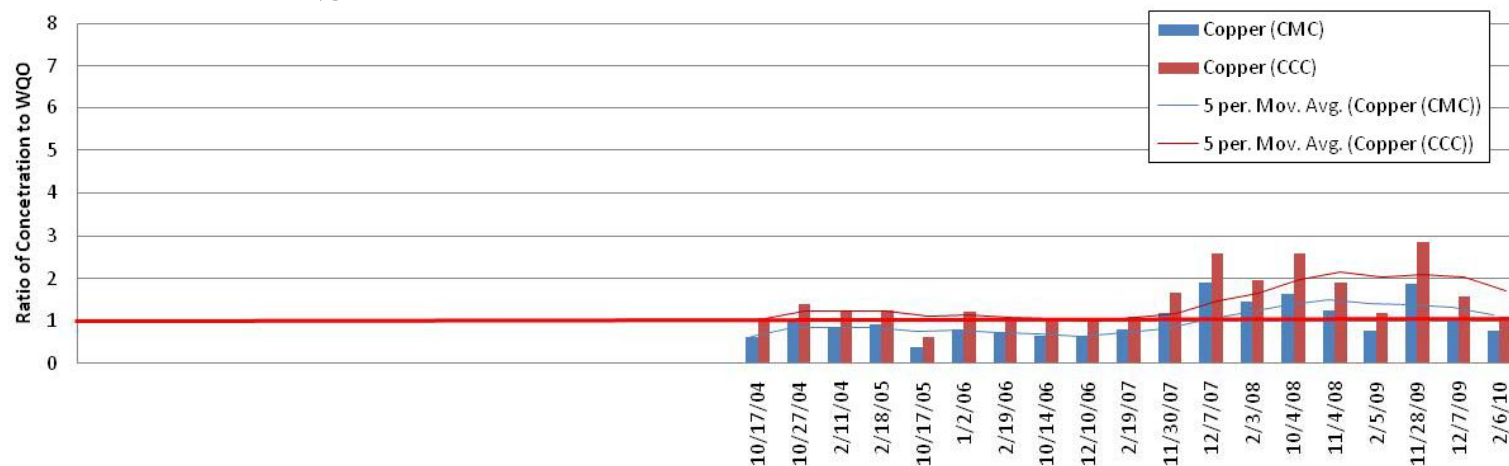
North Fork

SD8(1)-Copper



South Fork

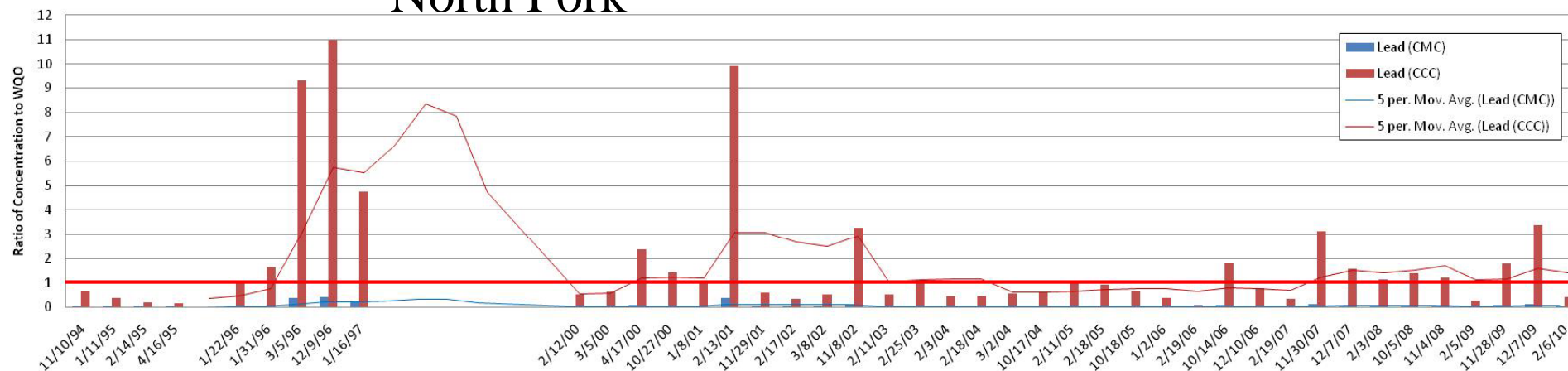
DPR2-Copper



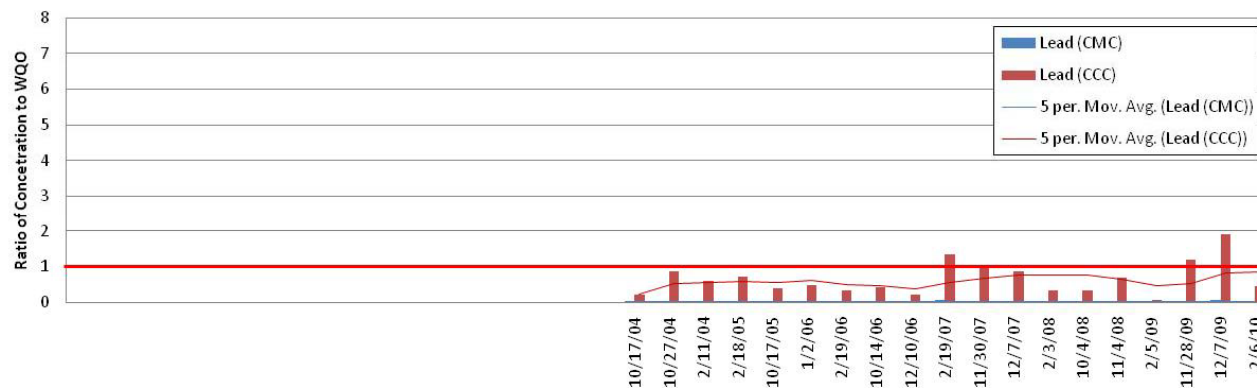
Historical Metals Results - Lead



North Fork SD8(1)-Lead



South Fork DPR2-Lead

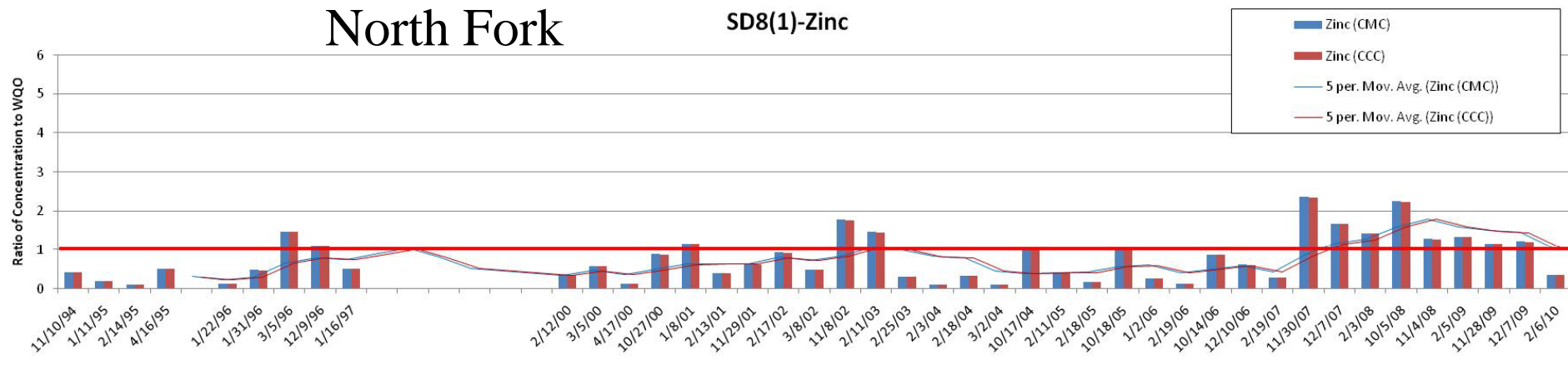


Historical Metals Results - Zinc



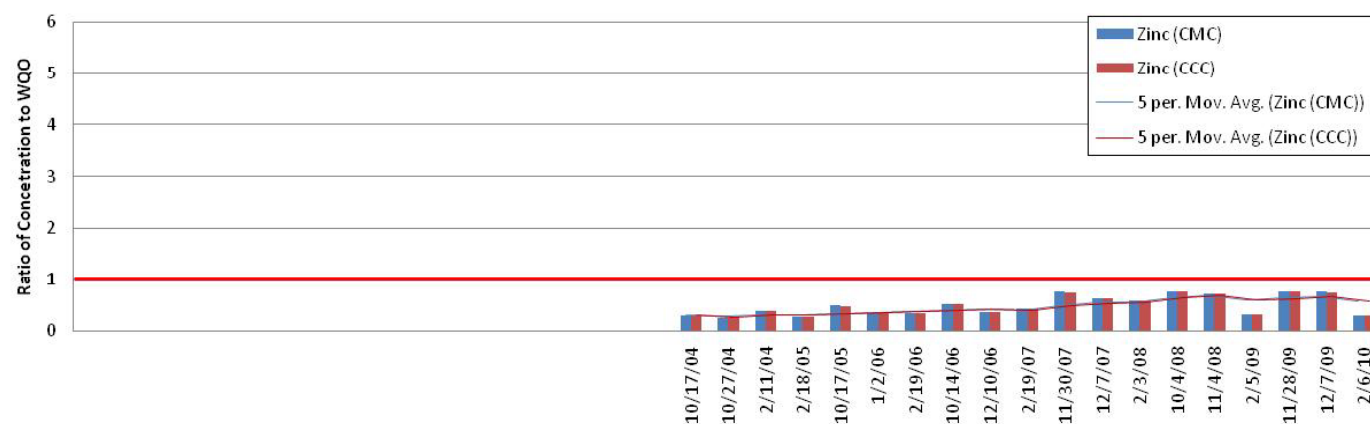
North Fork

SD8(1)-Zinc



South Fork

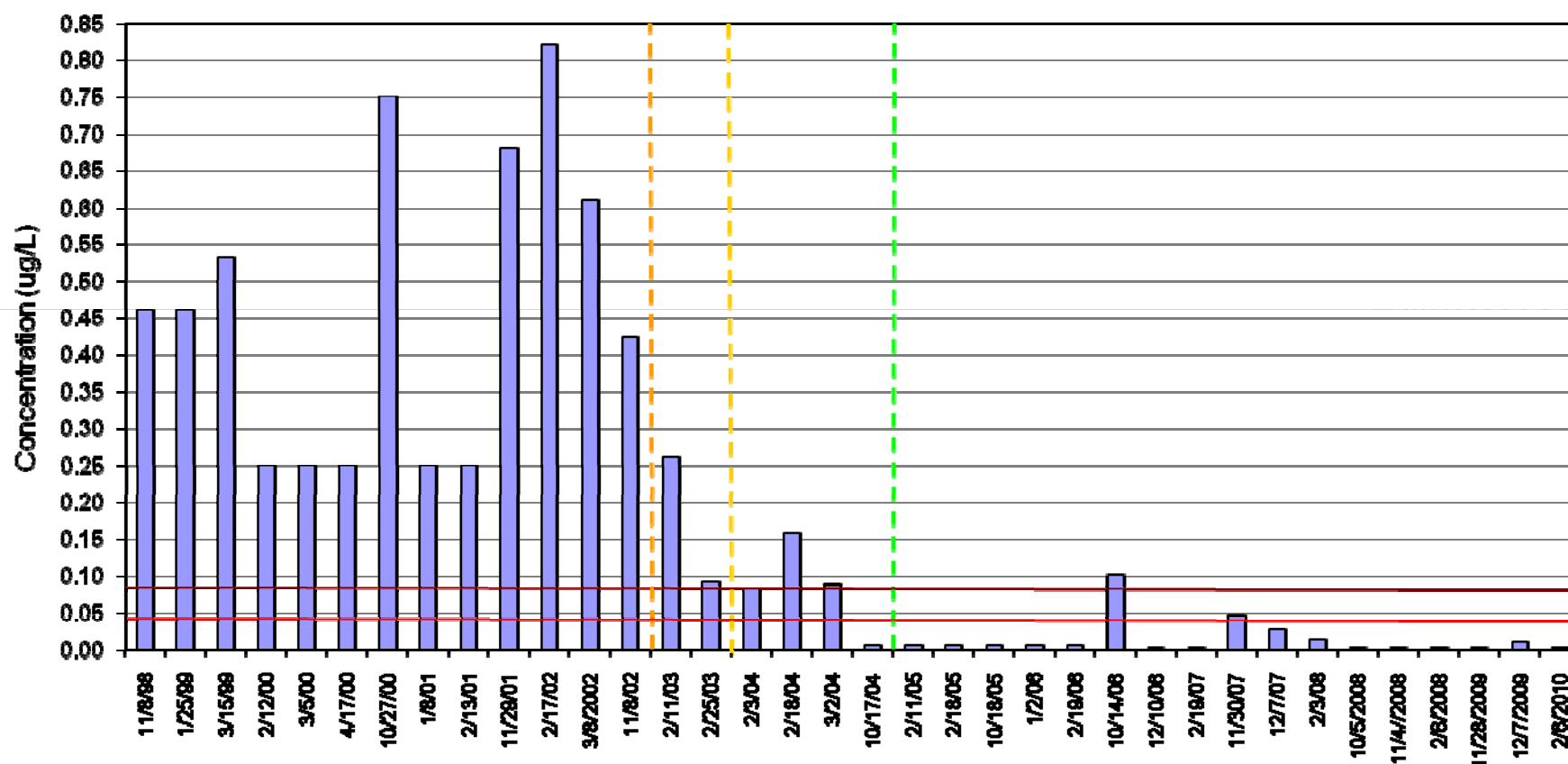
DPR2-Zinc



North Fork Site SD8(1)



Diazinon (ug/L) Monitoring Results at Chollas Creek Site SD8(1) and EPA Restriction Dates



Diazinon WQO and Acute WLA
(0.08 and 0.072 ug/l)

Diazinon Chronic WLA
(0.045 ug/l)

Retail Sales for indoor
use ends (12/2002)

Legend

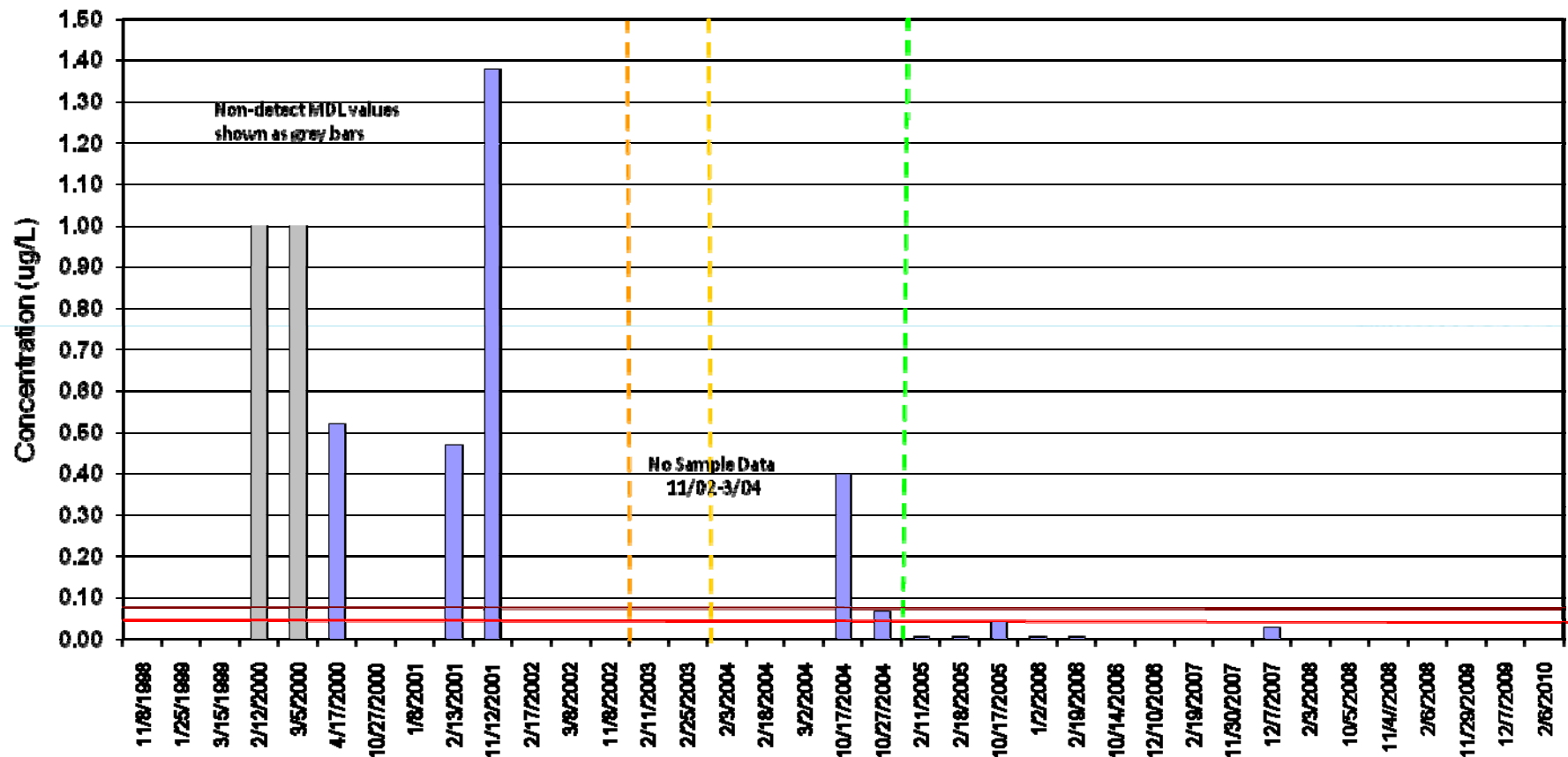
Diazinon manufacturing stops;
retail sales for lawn/garden care ends (8/2003)

Diazinon is no longer available for
purchase (1/2005)



South Fork Site DPR2

Diazinon (ug/L) Monitoring Results at Chollas Creek Site DPR2 and EPA Restriction Dates



Legend

Diazinon WQO and Acute WLA
(0.08 and 0.072 ug/l)

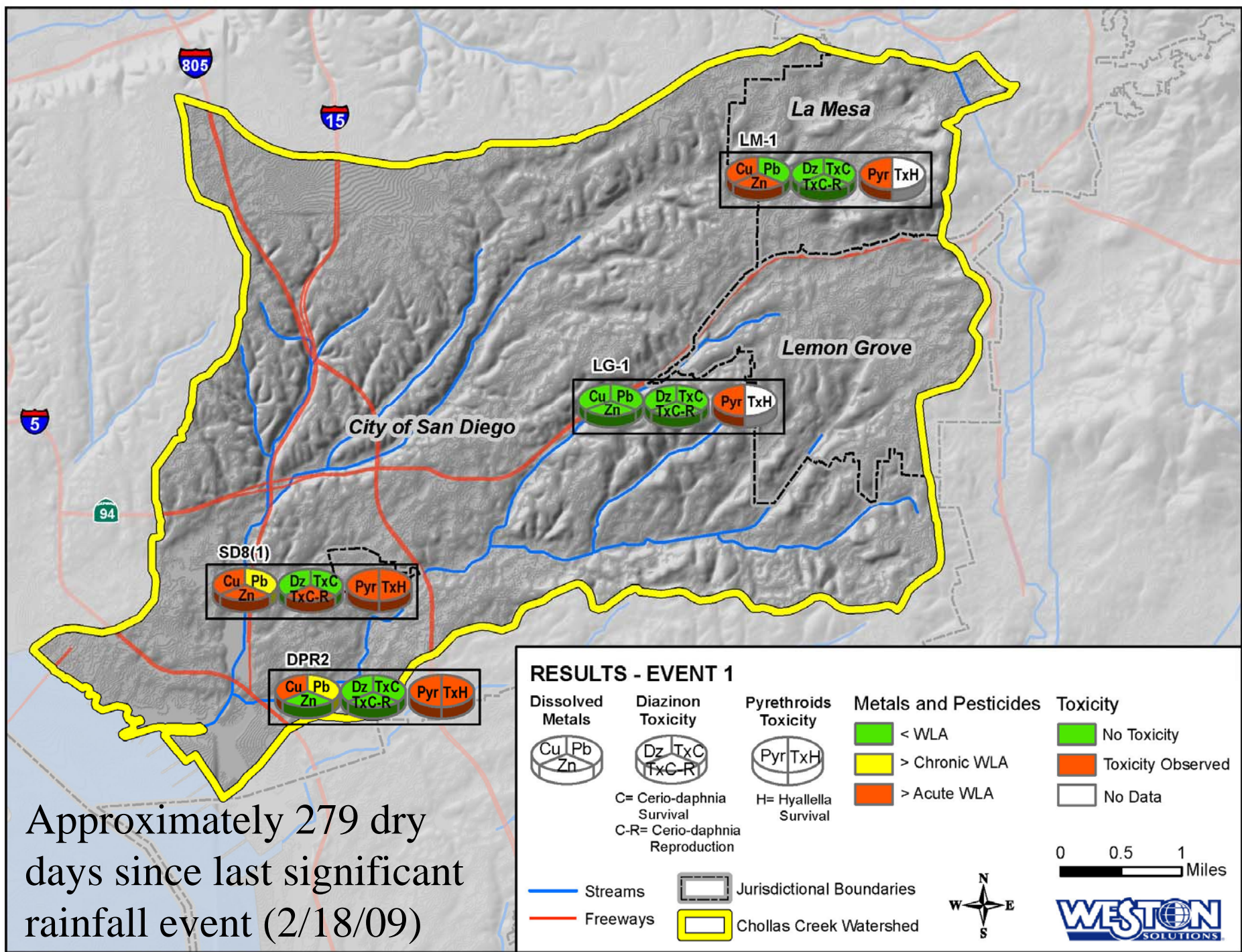
Diazinon Chronic WLA
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Retail Sales for indoor
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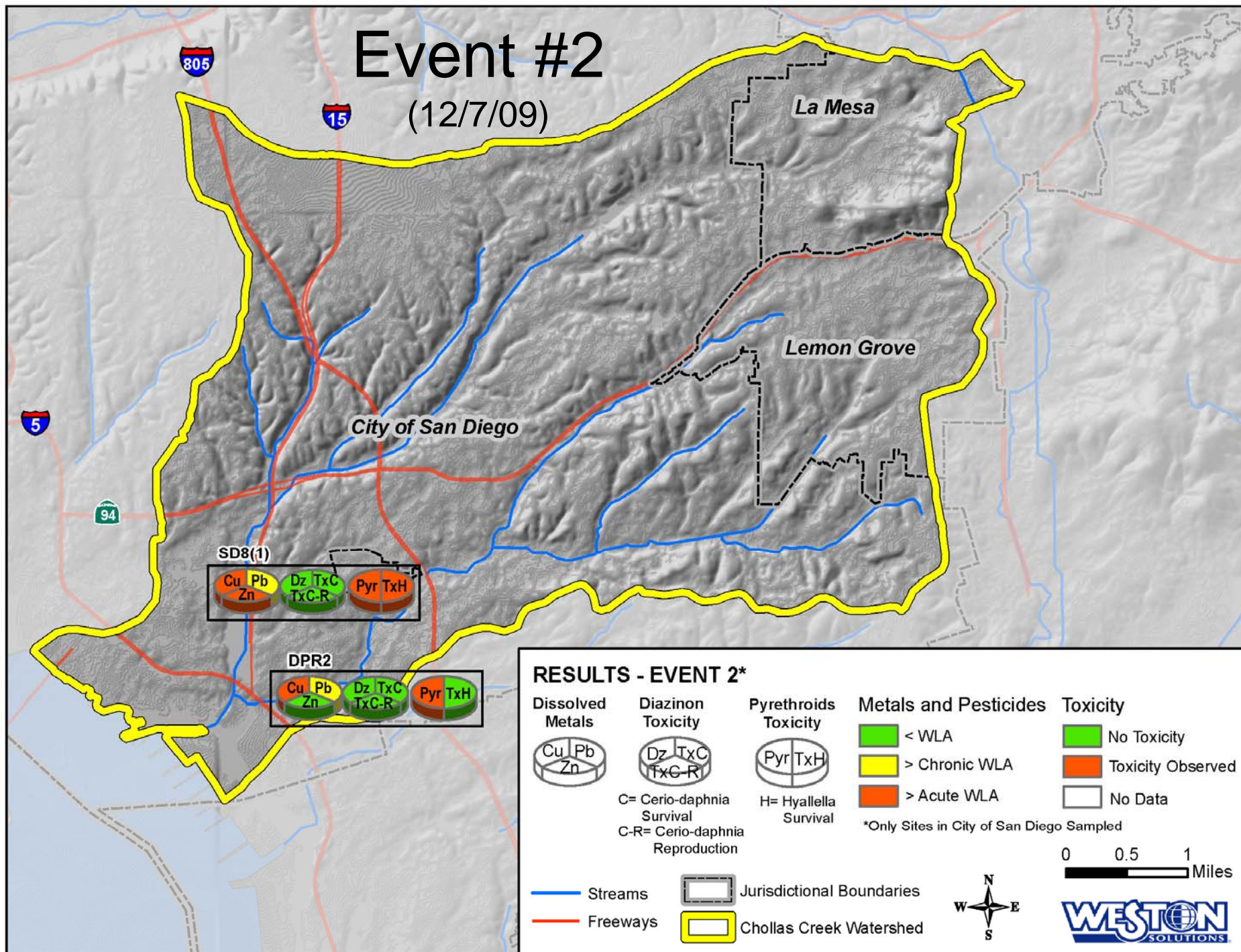
Diazinon is no longer available for
purchase (1/2005)

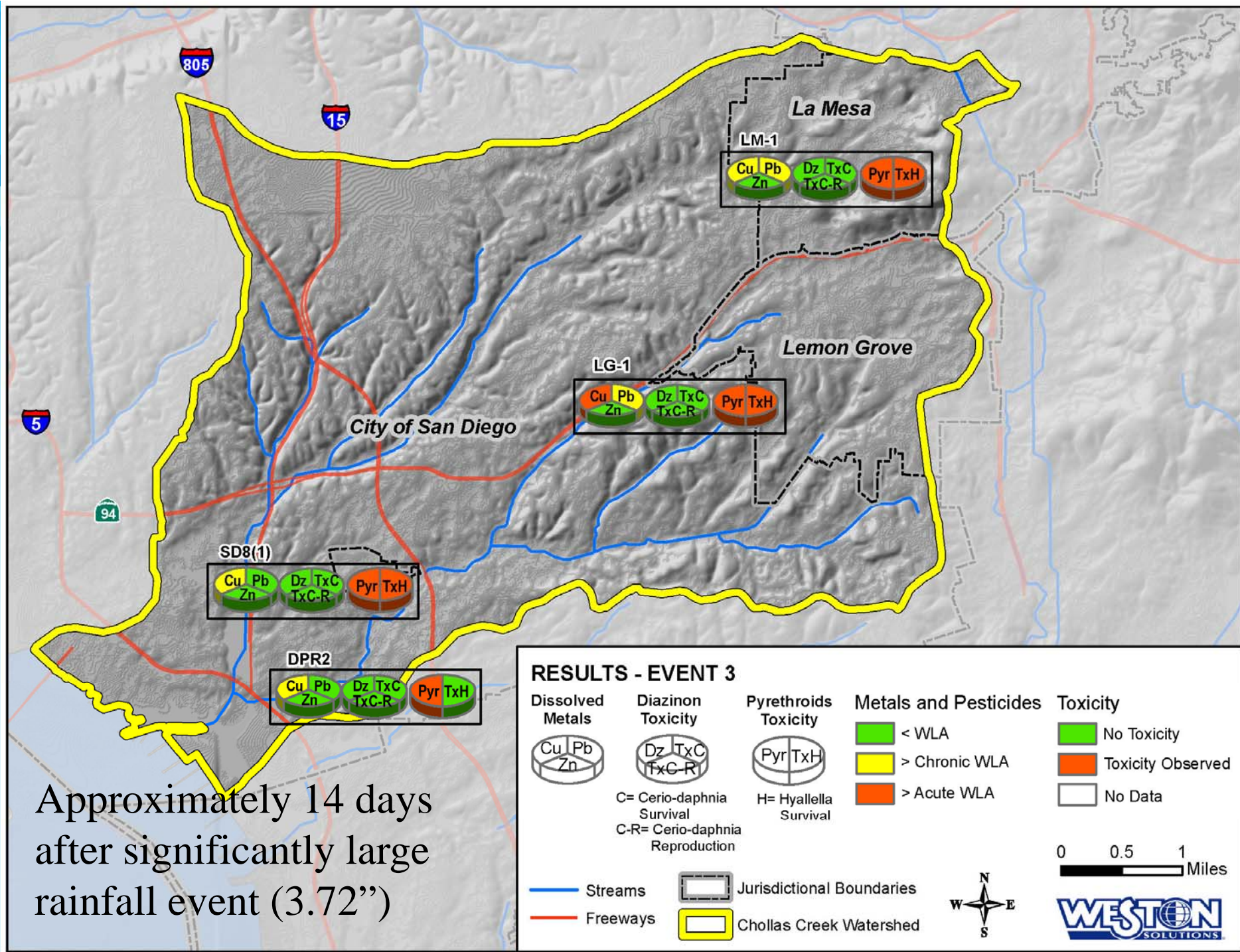




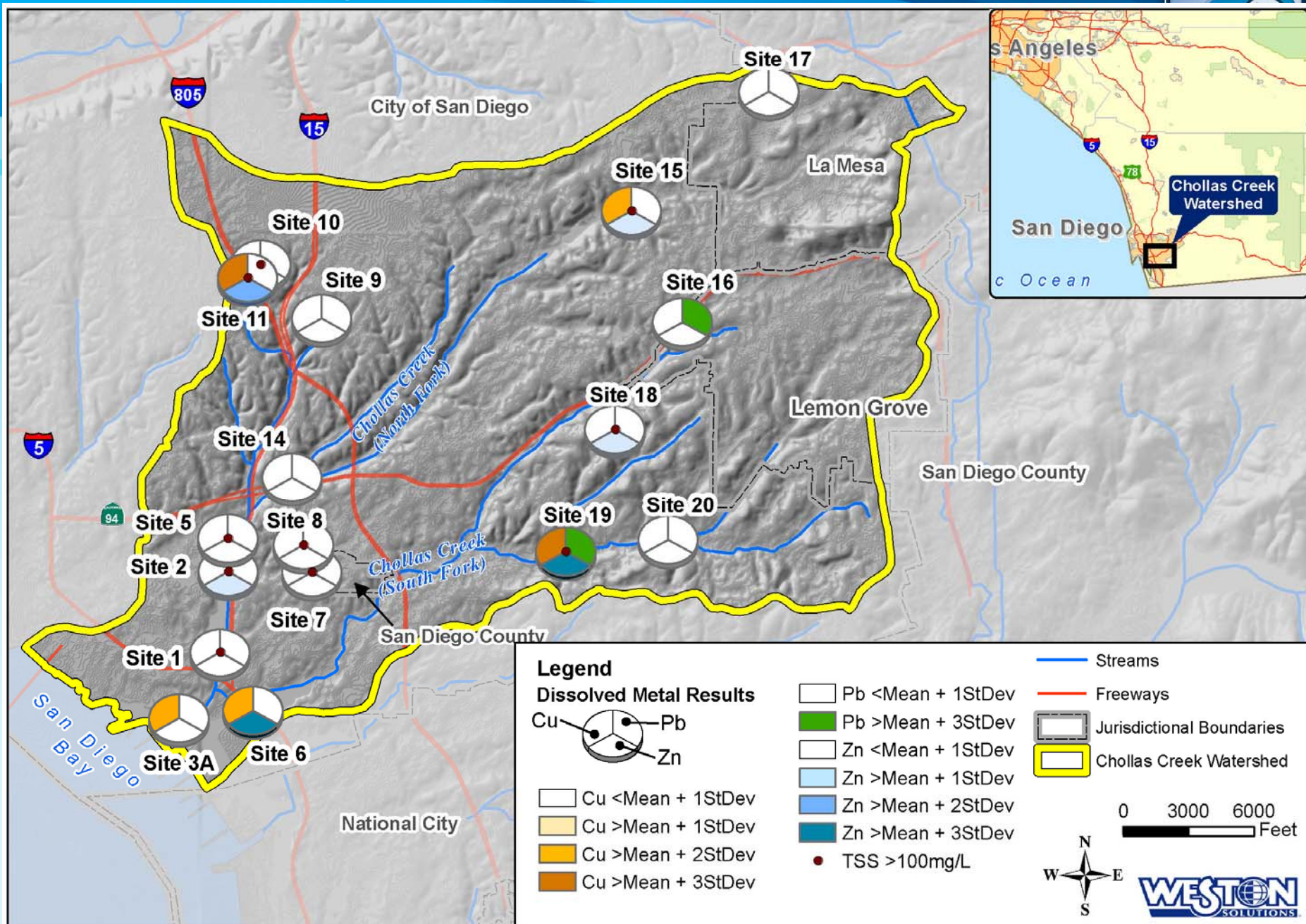
Event #2

(12/7/09)





Special Study #2 – Source Assessment Grab Samples



DRAFT Results Summary



- Copper and Zinc most commonly above TMDL waste load allocation. Few lead exceedances.
- Diazinon below chronic TMDL waste load allocations (very few detections).
- No acute or chronic survival toxicity to *C. dubia*.
- Reproductive toxicity to *C. dubia* observed in 11/28/09 event at SD8(1) only.
- Toxicity to *H. azteca* observed at all sites.
- Synthetic pyrethroids detected at all sites during all events, most are above LC₅₀.
- Bacteria above benchmarks during all monitoring events

